

NO ILLUSTRATION AVAILABLE

SYNCHRO/SERVOMECHANISM DEMONSTRATOR, DEVICE 6B24**TRAINING CATEGORY:**

BASIC SCIENCE (Electronic)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 6B24 is unclassified.

INTENDED USE:

To demonstrate the operation and relationship of Synchros and Servo mechanisms and their use in complete systems. The panel board, by its modular construction, allows the student to relate the individual element of Simple Servo Systems with the more complex systems presently in use.

FUNCTIONAL DESCRIPTION:

The demonstrator provides the instructor with all the modular components necessary to build synchro devices and closed loop servo system by interconnection of modular assemblies. One (1) each of the following modules:

1. Transmitter Synchro
2. Differential Synchro
3. Receiver Synchro
4. Control Transformer Synchro
5. Resolver
6. Power Supply
7. Servo Amplifier
8. Motor driven indicator, with follow-up control transformer and potentiometer.

An internal power supply of twenty-six (26) volts 400 Hz is provided to energize the panels.

PHYSICAL INFORMATION:

Size: 42" Wide x 40" High x 6" Deep

Weight: 52 lbs.

DIRECTORY OF NAVAL TRAINING DEVICES

ENVIRONMENTAL CHARACTERISTICS:

Continuous operation at temperatures up to 110° F.

Storage without damage at temperatures from minus 13° F up to 125° F at humidities up to 95%.

EQUIPMENT REQUIRED (NOT SUPPLIED):

1. Multimeter AN/PSM-4E or equal.
2. Center reading high impedance voltmeter.

INSTALLATION AREA:

Classroom

POWER REQUIREMENTS:

115 Volt, $\pm 10\%$, 60 Hz, $\pm 5\%$, 1 phase, 40 watts

REFERENCE PUBLICATIONS (NOT SUPPLIED):

NAVWEPS OP 1303 U.S. Navy Synchros

PERSONNEL:

Instructors: One (1) qualified Synchro Servo Instructor

Operators: One (1) qualified Synchro Servo Instructor

Trainees: Up to Ten (10) at one time

Maintenance: One (1) Technician

CONTRACT IDENTIFICATION:

Manufactured by ESP Epsilon Sigma Pi Inc.,
37 S. Mall, Plainview, NY under NAVTRASYSSEN
Contract No. N61339-71-C-0162.

LOCAL STOCK NUMBER:

6910-LL-C00-1569